

ARLECDON and FRIZINGTON
URBAN DISTRICT.

FIFTEENTH
ANNUAL REPORT

OF

JAMES I. LACE,

MEDICAL OFFICER OF HEALTH,

FOR

1898.

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THIRLMERE HOUSE,

FRIZINGTON, via Carnforth,

31st January, 1899.

Gentlemen,

I have the honour to submit my Fifteenth Annual Report for 1898. In addition to the usual tabular Statements of sickness and mortality within the Urban District, various other Statistical Tables are appended containing important information. In giving the vital statistics for the year the population up to the middle of 1898 is estimated at 5,900. This number is numerically the same as that of 1897. Arlecdon has a population of 1,950, Frizington 3,850, which shows an increase of 150 in Arlecdon, and a corresponding decrease in Frizington. There is no change in the number of the inhabitants in Whillimoor, which has an estimated population of 100.

The number of births registered in 1898 was 144, the sexes being equal, viz., seventy-two boys and seventy-two girls. This is twenty-seven less than in 1897, and fifty-one less than the average for the previous ten years. The birth-rate was 24·40 per 1,000 of the population in the whole district; 21·53 in Arlecdon; 26·49 in Frizington; but in the Township of Whillimoor no birth was recorded during the year. The total number of deaths registered during the year was eighty-three—forty-four males and thirty-eight females (one, sex unknown); twenty-nine in Arlecdon; fifty-two in Frizington; and two in Whillimoor. The rate of mortality for the year was equivalent to 14·06 per 1,000 on a population of 5,900 calculated to the middle of the

year, being '85 lower than in 1897. The excess of births over deaths representing the natural increase to the population was sixty-one, this being twenty-two less than in 1897.

The death-rates in the district for the quarterly periods were :—

1st quarter	...	10·16	...	15 deaths
2nd „	...	18·98	...	28 „
3rd „	...	14·23	...	21 „
4th „	...	12·88	...	19 „

The mortality among children under one year (including a child found dead—name, sex, and age unknown) numbered eighteen, that for the previous year twenty-four. Measured by the proportion of deaths to births registered, the infant death-rate was equal to 125 per 1,000, as compared with 140 in 1897. The Senile deaths, or deaths of persons aged sixty five and upwards, numbered twenty-four, which represents a percentage of 28·91, or 18·69 higher than that of last year. Sixteen persons had passed the term of “three score years and ten,” of whom seven were upwards of eighty, and one had reached the age of ninety-one. During the year seventy-three cases of infectious disease were notified to this Authority. The number of deaths caused by Zymotic disease was six, eleven less than in 1897. They all occurred in Arlecdon, and were due to Scarlatina. The Zymotic death-rate was 1·01, being 1·87 lower than that of last year. Scarlatina was unusually prevalent in the whole district during the greater part of the year, and from a mild type, with no fatal cases, suddenly assumed a fatal form in Arlecdon. The six deaths due to this disease occurred in July and August. The

disease spread in spite of every endeavour to arrest its progress, and the Board Schools at Arlecdon were, at my suggestion, not re-opened immediately after the holidays, but remained closed till the 5th September, three weeks after the usual date for re-opening. By the end of October, I was not aware of a single case of Scarlatina under treatment in the district. Four cases of Measles came under my notice in May. They were new-comers, and contracted the disease before their arrival in the district. Every precaution was exercised by the Council's officials to localize the disease, and the outbreak was easily extinguished.

Two cases of Erysipelas were notified during 1898. The disease was of the simple cutaneous variety.

In November a case of Enteric Fever occurred at No. 201, Frizington Road, Frizington. The patient, a young man, was at once removed to the Infectious Disease Hospital at Galemire, where he recovered. Other precautionary measures were adopted, and no further case occurred. I attribute the cause of this case of Enteric Fever to the foul exhalations from the sewer. The sanitary fittings of the water closet of the house in which he resided were defective. The number of deaths from Phthisis in 1898 was fifteen, which was unusually large as compared with that of previous years, and gives a mortality-rate of 2.54.

I have made the usual general inspection of the district and paid special attention to certain divisions, and, with few exceptions, found the sanitary condition satisfactory.

The County Police took 4 samples of milk, 1 of butter, 2 of

whisky, 1 of lard, 1 of coffee, and 1 of pepper. The Analyst for the county stated each sample genuine.

I append the Twelfth Annual Report of the Sanitary Inspector, which gives the particulars of the work done during the year.

I am, Gentlemen,

Your obedient Servant,

J. I. LACE,

Medical Officer of Health.

Population of Whillimoor for 1898	...	...	100
.. Arlecdon ..	...	...	1,950
.. Frizington ..	...	...	3,850
Population of District			5,900

TABLE I.—Births.

The total number of Births, Male and Female, Legitimate and Illegitimate, and Birth-rate per 1,000 of the population of the District, and the percentage of Illegitimate to the total Births.

DISTRICTS.	Estimated Popula- tion to the Middle of 1898.	BIRTHS.						Rate per 1000 Population.	Percentage of Illegitimate.
		Legitimate		Illegitimate		1898.			
		Male.	Female.	Male.	Female.	Total.			
								1898.	1898.
Arlecdon ...	1950	21	17	3	1	42	21.53	2.05	
Frizington ...	3850	45	51	3	3	102	26.49	1.55	
Whillimoor ...	100	0	0	0	0	0	0	0	
The Entire District	5900	66	68	6	4	144	24.40	1.69	

TABLE II.—Deaths in the District from January 1st to December 31st, 1898.

Deaths under 1 year of age	...	...	18	27
.. of 1 ..	and under 5 years	...	9	under 5 years.
.. .. 5 ..	 15 ..	...	4	56
.. .. 15 ..	 25 ..	...	4	
.. .. 25 ..	 65 ..	...	24	
.. .. 65 ..	and upwards	...	24	over 5 years.
Total			...	83

TABLE III.—Deaths from January 1st to
December 31st, 1898.

Extent, Population, and Mortality.	Township of Arlecdon.	Township of Frizington	Township of Whillimoor	The Entire District.
Area in Acres	1569·604	2079·891	1906·845	5556·340
Population, Census 1891 ..	1,504	4,135	58	5,697
„ estimated to the middle of 1898	1,950	3,850	100	5,900
Deaths from the eight chief zymotic diseases ...	6	0	0	6
Deaths from other causes ...	23	52	2	7
Total deaths for the year ...	29	52	2	83
Death-rate from the eight chief zymotic diseases per 1,000	3·07	0	0	1·01
Death-rate from all other causes per 1,000 ...	11·79	13·05	20·00	13·05
General death-rate per 1,000	14·87	13·05	20·00	14·06

TABLE IV.—Deaths from the Eight Chief Zymotic
Diseases.

Smallpox	0	} = 6
Scarlatina	6	
Diphtheria	0	
Membranous Croup	0	
Typhus Fever	0	
Enteric or Typhoid Fever	0	
Measles	0	}
Whooping Cough	0	

TABLE V.—Death-rate for Arlecdon and Frizington,
As required by the Local Government Board, 1898.

Names of Diseases.					Under 5 years.	5 years and upwards.
Smallpox	...	...	...	...	0	0
Scarlatina	...	...	...	...	4	2
Diphtheria	...	...	...	...	0	0
Membranous Croup	...	...	...	...	0	0
Typhus	...	...	...	...	0	0
Enteric or Typhoid	} Fevers	...	...	...	0	0
Continued		...	...	...	0	0
Relapsing		...	...	...	0	0
Puerperal		...	...	...	0	0
Cholera	...	...	...	...	0	0
Erysipelas	...	...	...	...	0	0
Measles	...	...	...	...	0	0
Whooping Cough	...	...	...	...	0	0
Diarrhœa and Dysentery	...	...	...	...	0	1
Rheumatic Fever	...	...	...	...	0	0
Ague	...	...	...	...	0	0
Phthisis	...	...	...	...	2	13
Bronchitis, Pneumonitis, and Pleuritis	...	...	...	...	4	12
Heart Disease	...	...	...	...	0	6
Injuries	...	...	...	...	2	1
All other Diseases	...	...	...	...	15	21
Totals					27	56

TABLE VI.—Summary.

	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Total Births	234	208	194	172	174	192	235	204	213	206	207	195	161	171	144
Annual Birth-rate per 1,000 population }	46.33	41.18	38.41	34.05	34.45	34.28	39.16	36.17	39.44	39.61	36.63	33.91	28.00	29.00	24.40
Total Deaths	96	82	80	82	78	95	112	77	75	91	68	90	72	88	83
Annual Mortality per 1,000 population }	19.00	16.23	15.84	16.23	15.44	16.29	18.66	13.65	13.88	17.50	12.03	15.65	12.52	14.91	14.06

ANNUAL REPORT OF THE SANITARY INSPECTOR.

To the Chairman and Members of the Arlecdon and Frizington
Urban District Council.

Gentlemen,

I have only been in office for a period extending a little over two months, but having had the opportunity of going through the late Inspector's books, together with the inspections made by myself, I am prepared to lay before you the following Summary of the Sanitary Work done under your authority for the year 1898.

**TABLE VII.—Showing Particulars of the Work done
by the Board during the year 1898.**

					No.
Inspections made	...	...	...	...	1,063
Nuisances reported	...	...	...	...	64
„ abated without notice	...	...	...	...	47
Formal Notices served	...	...	...	...	0
New Main Sewers laid	...	...	...	...	0
Privies converted into W.C.'s	...	...	...	...	0
New W.C.'s built	...	...	...	...	7
Ashpits removed	...	...	...	...	0
Houses connected to Main Sewers	...	...	...	...	3
„ to Water Mains	...	...	...	...	7
New Buildings surveyed during the year	...	...	...	...	3

I am, Gentlemen,

Yours obediently,

GEO. ASHBRIDGE,

Sanitary Inspector.

TABLE VIII.

TABLE OF DEATHS during the year 1898, in the Arlecdon and Frizington Urban District; classified according to Diseases, Ages, and Localities.

Names of Localities.	Mortality from all causes, at subjoined ages.							Mortality from subjoined causes, distinguishing deaths of Children under Five Years of Age.															Total.					
	At all Ages.	Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Fever.																				
								Smallpox.	Scarlatina.	Diphtheria.	Membranous (roup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea and Dysentery.	Phtthisis.		Bronchitis, Pneumonia and Pleurisy	Heart Disease.	Injuries.	All Other Diseases.	
Aulecdon	29	6	5	2	1	9	6	Under 5 5 upwards	4												3	1	1	1	5	11		
Frizington	52	12	4	2	3	14	17	Under 5 5 upwards	2												2	3	3	2	1	7	18	
Whillmoor	2	...	...	...	...	1	1	Under 5 5 upwards														1	9	4	...	...	2	2
Totals	83	18	9	4	4	24	24	Under 5 5 upwards	4													2	4	4	2	15	27	56

Area in acres, 5,556-340. Population (last census), 5,697. Population (estimated to middle of 1898), 5,900.

General Death-rate per 1,000 population (estimated to middle of 1898), 14-06. Infant Death-rate (under one year of age), 125 per 1,000 births registered.

TABLE IX.

TABLE OF POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS, coming to the knowledge of the Medical Officer of Health, during the year 1898, in the Arlecdon and Frizington Urban District; classified according to Diseases, Ages, and Localities.

Names of Localities.	Population at all Ages.		Registered Births.	New Cases of Sickness in each Locality, coming to the knowledge of the Medical Officer of Health.														Number of such Cases Removed from their Homes in the several Localities for Treatment in Isolation Hospital.													
	Census, 1891	Estimated to middle of '98		Smallpox.	Scarlatina.	Diphtheria.	Membranous Group.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Smallpox.	Scarlatina.	Diphtheria.	Membranous Group.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.						
Arlecdon ...	1504	1950	42	Under 5.....	20																										
				5 upwards....	43								1			1															
Frizington ...	4135	3850	102	Under 5.....	3																										
				5 upwards....	4				1				1						1												
Whillmoor..	58	100		Under 5.....																											
				5 upwards....																											
Totals	5697	5900	144	Under 5.....	23															1											
				5 upwards....	47				1				2																		

Notification of Infectious Disease is compulsory in the district and has been since 19th May, 1890.
Galemiere Joint Fever Hospital, in the Whitehaven Union Rural District, near Cleator Moor.

Rainfall and Evaporation at Braystones in the year 1898.

Month.	Rain.	Evaporation.
	Inches.	Inches.
January	2·35	·72
February	3·28	1·53
March	1·15	2·02
April	3·01	2·99
May	3·12	2·24
June	2·29	3·84
July	·63	3·56
August	6·37	2·93
September	2·55	2·52
October	3·60	1·65
November	3·75	1·44
December	4·08	·72
Totals	36·18	26·16

The rain in the year 1898 was below the average, and 7·45 inches less than in the year 1897. Considering the continued dampness of atmosphere during the year, this at once seems remarkable. This dampness, however, was due specially to the small amount of evaporation or drying power, the evaporation having been 4·28 less than in the year 1897, and 5·92 inches less than the average of the previous 34 years.

W. H. WATSON.

**Rainfall and Evaporation since 1863, at Braystones,
near Whitehaven, Cumberland.**

Year.	Rain.	Evaporation.
	Inches.	Inches.
1864	35·02	28·93
1865	33·20	30·07
1866	40·80	30·19
1867	33·24	28·73
1868	35·65	33·85
1869	40·77	32·07
1870	31·17	30·87
1871	32·92	31·06
1872	51·91	30·09
1873	36·62	29·75
1874	37·84	30·47
1875	34·61	28·97
1876	37·81	36·81
1877	58·52	36·49
1878	30·69	32·43
1879	31·58	26·21
1880	27·21	32·03
1881	35·42	25·98
1882	41·82	30·39
1883	38·95	29·38
1884	36·59	30·86
1885	33·55	28·27
1886	36·12 (11 months)	22·68 (10 months)
1887	20·22	22·80
1888	29·46	23·02
1889	30·48	29·74
1890	41·23	25·76
1891	39·46	26·38
1892	37·30	26·71
1893	34·17	30·38
1894	34·53	28·01
1895	30·41	25·58
1896	37·62	24·49
1897	43·63	30·44
1898	36·18	26·16

